

Material Safety Data Sheet

Revive

QuestVapco Corporation
P.O. Box 624
Brenham, TX 77834
Emergency Phone Number: (800) 231-0454

DATE PREPARED: 07/05/2013
REVISION DATE: 07/05/2013
CHEM-TEL: 800-225-3924
PRODUCT NUMBER: 5960

SECTION I - IDENTIFICATION

PRODUCT NAME: Revive
PRODUCT USE: Rust Converter

PRODUCT CODE: 5960

SECTION II – COMPOSITION/HAZARDOUS INGREDIENTS

HAZARDOUS INGREDIENT	CAS NUMBER	OSHA PEL	ACGIH TLV
2-Butoxyethanol	111-76-2	50 ppm	20 ppm
Isopropyl Alcohol	67-63-0	400 ppm	200 ppm
Propane/N-Butane	68476-86-8	N/A	1000 ppm
Acetone	67-64-1	1000 ppm	500 ppm
Diethylene Glycol	111-46-5	Not Established	Not Established
Tannic Acid	1401-55-4	Not Established	Not Established

SECTION III – HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW: Extremely Flammable Aerosol under pressure. Do not expose to high temperatures or store in direct sunlight.

ROUTES OF ENTRY: Eyes, Ingestion, Inhalation, Skin

EYES: Redness, irritation, causes temporary corneal opacity. **INGESTION:** Nausea. **INHALATION:** Will cause dizziness, anesthesia and possibly death if breathed directly. **SKIN:** May cause mild irritation, dryness with prolonged or repeated contact.

MEDICAL CONDITION AGGRAVATED: None known

CHRONIC HEALTH HAZARDS: None known

CARCINOGENICITY: OSHA: No ACGIH: No NTP: No IARC: No **OTHER:** No

SECTION IV - FIRST AID MEASURES

EYES: Immediately flush with water for 15 - 20 minutes while holding eyelids open. Seek medical attention if irritation persists.

INGESTION: Do not induce vomiting. Drink several glasses of water.

INHALATION: Move to fresh air. If breathing is difficult, administer oxygen. If not breathing administer artificial respiration or at any sign of loss of consciousness seek immediate medical attention.

SKIN: Immediately wash with soap and water for 15 minutes. Seek medical attention if irritation develops.

NOTE TO PHYSICIAN: None

SECTION V – FIRE-FIGHTING MEASURES

FLASH POINT: 65°F (18°C) **FLAMMABLE LIMITS IN AIR, (% BY VOLUME)** **UPPER:** N/A **LOWER:** N/A

EXTINGUISHING MEDIA: ABC fire extinguisher. Large warehouse fires recommend foam or water mist.

SPECIAL FIRE FIGHTING PROCEDURES: Wear NIOSH approved Self Contained Breathing Apparatus with a full face piece operated in a positive pressure demand mode with full body protective clothing when fighting fires. Use water spray only to cool exposed containers.

UNUSUAL FIRE AND EXPLOSION HAZARDS: Contents under pressure. Exposure to temperatures above 120°F may cause bursting.

HAZARDOUS COMBUSTION PRODUCTS: Oxides of carbon

Material Safety Data Sheet

Revive

SECTION VI – ACCIDENTAL RELEASE MEASURES

SPILL: Use non-combustible material like vermiculite, sand or earth on spill sweep to clean. Dispose in accordance with local, state and federal laws. Small releases may be wiped up with wiping material.

WASTE DISPOSAL: Dispose of in accordance with federal, state, and local regulations. Do not dump in sewers. Wrap container and place in trash collection, do not puncture, incinerate, or reuse container.

RCRA STATUS: Not listed as hazardous waste under RCRA, however product should be fully characterized prior to disposal (40 CFR 261).

SECTION VII – HANDLING AND STORAGE

HANDLING AND STORAGE: Store in a cool, dry area. Do not use or store near heat or open flames. Exposure to temperatures above 120°F may cause bursting.

OTHER PRECAUTIONS: None **Danger! Extremely Flammable!** Contents under pressure. Keep out of reach of children.

SECTION VIII – EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS / VENTILATION: Ambient ventilation suitable, forced ventilation should not be required

RESPIRATORY PROTECTION: Not required with normal use.

PROTECTIVE CLOTHING: Safety glasses and chemical resistant gloves are recommended.

ADDITIONAL MEASURES: Wash hands thoroughly with soap and water after use. Use good industrial hygiene practices.

EXPOSURE GUIDELINES: Extremely Flammable

SECTION IX - PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: Clear, Brown Liquid

PHYSICAL STATE: Aerosol Spray

FREEZING POINT: Not Determined

VAPOR DENSITY (AIR=1): > 1 @ 77°F (25°C)

SPECIFIC GRAVITY (H₂O=1): 1.20

SOLIDS (%): 15.7%

VOLATILITY INCLUDING WATER (%): 84.3%

DIELECTRIC STRENGTH (Volts): N/A

ODOR: Solvent

BOILING POINT: > 150°F (66°C)

VAPOR PRESSURE (mm Hg): 77.3 @ 77°F (25°C)

EVAPORATION RATE: > 1

pH: N/A

SOLUBILITY IN WATER: Non-soluble

VOLATILE ORGANIC COMPOUNDS (VOC): 44%

SECTION X – STABILITY AND REACTIVITY DATA

CHEMICAL STABILITY: Stable

CONDITIONS TO AVOID: Elevated temperatures and excessive heat.

INCOMPATIBILITY: Concentrated nitric & sulfuric acid mixtures, oxidizing materials, chloroform, alkalis, chlorine compounds, acids, plastics, rubber, coatings

HAZARDOUS DECOMPOSITION OR BY-PRODUCT: Oxides of carbon **HAZARDOUS POLYMERIZATION:** Will not occur

SECTION XI – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION: **2-Butoxyethanol** (111-76-2) LD₅₀ (Oral, Rat) 470 mg/kg; LC₅₀ (Inhalation, Rat, 4hr) 450 ppm; LD₅₀ (Dermal, Rabbit) 220 mg/kg; investigated as a tumorigen, mutagen, reproductive effector. Reproductive Toxicity: Has shown teratogenic effects in laboratory animals. **Acetone** (67-64-1) LD₅₀ (Oral, Rat) 5800 mg/kg; LD₅₀ (Oral, Mouse) 3000 mg/kg; LD₅₀ (Oral, Rabbit) 5340 mg/kg; LC₅₀ (Inhalation, Rat, 8hr) 50100 mg/m³; LC₅₀ (Inhalation, Mouse, 4hr) 44,000 mg/m³ **Diethylene Glycol (DEG)** (111-46-5) LD₅₀ (Oral, Rat) 25,300 mg/kg; LD₅₀ (Oral, Human) 1,000 mg/kg; LD₅₀ (Dermal, Rabbit) 12,500 mg/kg; LC₅₀ (Inhalation, Rat) > 1,172 ppm **Propane/n-Butane** (68476-86-8) LC₅₀ (Inhalation, Rat, 4hr) 685 mg/m³

SECTION XII – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: **2-Butoxyethanol** (111-76-2) Toxic to aquatic life only in high concentrations, lethal concentrations not available. **Acetone** (67-64-1) LC₅₀ (Trout, 96hr) 5540 mg/L; LC₅₀ (Bluegill, 96hr) 8300 mg/L; LC₅₀ (Fathead Minnow, 96hr) 7500 mg/L

Material Safety Data Sheet

Revive

Diethylene Glycol (DEG) (111-46-5) LC₅₀ (Bluegill Sunfish) > 1000 mg/L **Isopropyl Alcohol** (67-63-0) LC₅₀ (Fathead Minnow, 96 hrs) 100,000 mg/L

SECTION XIII – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL: Dispose of in accordance with federal, state, and local regulations. Do not dump in sewers. Wrap container and place in trash collection, do not puncture, incinerate, or reuse container.

RCRA STATUS: Not listed as hazardous waste under RCRA, but product should be fully characterized prior to disposal (40 CFR 261).

SECTION XIV - TRANSPORTATION INFORMATION

PROPER SHIPPING NAME: Non-corrosive Cleaning Compound Consumer commodity ORM-D

HAZARD CLASS/DIVISION: ORM-D

UN/NA NUMBER: N/A

PACKAGING GROUP:

AIR SHIPMENT

PROPER SHIPPING NAME: Aerosols, Flammable

HAZARD CLASS/DIVISION: 2.1

UN/NA NUMBER: UN 1950

SHIPPING BY WATER:

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: Aerosols, Flammable

HAZARD CLASS/DIVISION: 2.1

UN/NA NUMBER: UN 1950

NOTE:

SECTION XV - REGULATORY INFORMATION

TSCA STATUS: All Chemicals are listed or exempt.

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION, AND LIABILITY ACT): Fire Hazard **Acetone** (67-64-1)

Reportable Quantity = 5,000 lbs

SARA 313 REPORTABLE INGREDIENTS: **2-Butoxyethanol** (111-76-2)

CLEAN WATER ACT: None

STATE REGULATIONS: This product contains no known chemicals regulated by California's proposition 65.

2-Butoxyethanol (111-76-2) RTK: NJ, MA, PA

INTERNATIONAL REGULATIONS: **2-Butoxyethanol** (111-76-2) Europe (EINECS), Japan (ENCS), Australia (AICS), WHMIS (Canada), DSCL (EEC), NDSL, Korea (ECL), Philippines (PICCS), New Zealand (NZIOC), China (IECS). **Acetone** (67-64-1) Australia, China, Europe (EINECS), Japan, Korea, United Kingdom, Canada, WHMIS (Canada): CLASS B-2: Flammable liquid with a flash point lower than 37.8°C (100°F). CLASS D-2B: Material causing other toxic effects (TOXIC). p. 6; DSCL (EEC): R11- Highly flammable. R36- Irritating to eyes. S9- Keep container in a well-ventilated place. S16- Keep away from ignition sources. S26- In case of eye contact, rinse immediately with plenty of water and seek medical advice.

Diethylene Glycol (DEG) (111-46-6) WHMIS (Canada): Not controlled under WHMIS (Canada). DSCL (EEC): R36/38- Irritating to eyes and skin. Listed on Australia - AICS, China - IECS, European Union - EINECS, Japan - ENCS, Korea - ECL, Philippines - PICCS, New Zealand - NZIoC

NFPA HEALTH: 2

HMIS HEALTH: 2

NFPA FLAMMABILITY: 4

HMIS FLAMMABILITY: 4

NFPA REACTIVITY: 1

HMIS REACTIVITY: 1

NFPA OTHER: N/A

HMIS PROTECTION: B

SECTION XVI - ADDITIONAL INFORMATION

PREPARATION BY: Tad Hebdon

DISCLAIMER: To the best of our knowledge, information contained herein is accurate. However there is no assumption of liability for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazard which exists. The information contained in this MSDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this MSDS shall be created or inferred by any statement in this MSDS. Various government

Material Safety Data Sheet

Revive

agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product which may not be covered by this MSDS. The user is responsible for full compliance.